

Title (en)
Monofilament suture and manufacturing method thereof

Title (de)
Monofilamentnahtmaterial und Verfahren zu seiner Herstellung

Title (fr)
Suture monofilamentaire et procédé de sa fabrication

Publication
EP 1348449 A1 20031001 (EN)

Application
EP 03007155 A 20030328

Priority
KR 20020017609 A 20020330

Abstract (en)
The present invention relates to a monofilament suture prepared by co-extruding polymers having different Young's moduli and to a process for preparing the same. The suture is prepared in such a form that a polymer having a high Young's modulus surrounds a polymer having a low Young's modulus. The monofilament suture prepared by the present invention has excellent knot security, flexibility and/or knot strength. <IMAGE>

IPC 1-7
A61L 17/00

IPC 8 full level
A61L 17/00 (2006.01); **A61L 17/12** (2006.01); **D01D 5/34** (2006.01); **D01F 8/14** (2006.01)

CPC (source: EP KR US)
A61B 17/06166 (2013.01 - EP US); **A61L 17/12** (2013.01 - EP US); **D01D 5/34** (2013.01 - EP KR US); **D01D 5/36** (2013.01 - EP US); **D01F 8/04** (2013.01 - EP US); **D01F 8/14** (2013.01 - EP US); **A61B 2017/00526** (2013.01 - EP US); **A61B 2017/0619** (2013.01 - EP US)

Citation (search report)
• [Y] WO 0001426 A1 20000113 - SMITH & NEPHEW [GB], et al
• [Y] WO 9820190 A1 19980514 - MONSANTO CO [US]
• [Y] EP 0786259 A2 19970730 - UNITED STATES SURGICAL CORP [US]
• [X] EP 0668083 A1 19950823 - UNITED STATES SURGICAL CORP [US]
• [Y] WO 0022991 A1 20000427 - US SURGICAL [US]
• [Y] EP 0499204 A1 19920819 - UNITED STATES SURGICAL CORP [US]
• [X] WO 9934750 A1 19990715 - BIOAMIDE INC [US], et al
• [PX] EP 1216718 A1 20020626 - ETHICON INC [US]

Cited by
EP1833380A4; EP1830734A4; US9393343B2; WO2006071032A1; WO2006071023A1; WO2006062342A1; WO2010052005A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)
EP 1348449 A1 20031001; **EP 1348449 B1 20050615**; AT E297763 T1 20050715; AU 2002324358 A1 20031013; BR 0215669 A 20050201; BR 0215669 B1 20140204; BR 0215669 B8 20210727; CN 1308507 C 20070404; CN 1623016 A 20050601; DE 60300832 D1 20050721; DE 60300832 T2 20060420; ES 2240878 T3 20051016; JP 2003339849 A 20031202; JP 4071661 B2 20080402; KR 100498201 B1 20050701; KR 20030078669 A 20031008; MX PA04009439 A 20050125; US 2003187476 A1 20031002; US 7070610 B2 20060704; WO 03083191 A1 20031009; ZA 200407847 B 20060531

DOCDB simple family (application)
EP 03007155 A 20030328; AT 03007155 T 20030328; AU 2002324358 A 20020823; BR 0215669 A 20020823; CN 02828678 A 20020823; DE 60300832 T 20030328; ES 03007155 T 20030328; JP 2003096339 A 20030331; KR 0201592 W 20020823; KR 20030018168 A 20030324; MX PA04009439 A 20020823; US 21833602 A 20020813; ZA 200407847 A 20040929